UDC 678.643.01:53

USSR

GOLUBENKOVA, L. I., DEMEKHINA, YE. M., CHIBISOVA, YE. I., SMIRNOVA, L. N., EKSANOVA, N. D., and YUDIN, V. F.

"Binders for Fiberglass-reinforced Plastics Based on Epoxy Resin ETF"

Moscow, Plasticheskiye Massy, No 6, 1970, pp 13-15

Abstract: In order to increase the thermostability of fiberglassreinforced plastics, work is being done to create binders based on epoxy resins which differ in structure from diane resins, primarily cycloaliphatic and poly imetional epoxy resins. Polyfunctional resin ETF, which is the product of the interaction of 1,1,3-tri-(hydroxyphenyl)-propane and epichlorohydrin, has a molecular weight of 540-700 and contains 20-24 percent epoxy groups. Hardening of this resin with amine or acid hardeners makes it possible to obtain specimens possessing higher thermostability than diane epoxy resins. The greatest bending strength is found in specimens hardened with anilinephenol-formaldehyde resin 211, the greatest compression strength in specimens hardened with maleic anhydride. Aniline-phenol-formaldehyde

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

GOLUBENKOVA, L. I., et al., Plasticheskiye Massy, No é, 1970, pp 13-15

resin 211 was chosen as the main hardener. The binder representing a composite of resins ETF and 211 has been given the brand designation T-71-S. Since resin ETF softens in the 35-550 G range, it can be used for the "dry" process of fiberglass-reinforced plastics manufacture. The properties of the binder applied to the glass cloth, as well as of the resultant fiberglass-reinforced plastics depend on the character of the solvent used to impregnate the glass filler and the storage conditions for the impregnated cloth.

2/2

USSR UDC 64.385.6

COLUMN A. F., TERZHOV, I.I.

"Method Of Messurement And Calculation Of Spectral Densities Of Wave Components Of The Noise Of A Beam In Crossed Fields"

V sb. Vopr. elektron.tekhn. (Problems Of Electronic Technology--Collection Of Works), Issue 2, Saratov, Saratov University, 1971, pp 115-156 (from RZh--Elektronika i yeye primeneniye, No 3, March 1972, Abstract No 5All)

Translation: A method is described of measurement for a calculation of the p wave components of the noise of an electron beam (EB). For the calculation it is necessary to measure the noise factor of the amplifier in which the q wave components of the EB interact with the wave of the delay system. The noise factor is only measured during a change of the electrical performance of the electron transformer with a velocity jump of the EB located between the electron gun and the input into the delay system. The elements are obtained of the matrix of the transformer and amplifier for a 4-wave model of a thin EB in crossed fields. 10 ref. R.B.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

UDO 621.385.652

GOLHBENTSEV A.E., MINKIN, L.M.

"To The Problem Of The Effect Of The Thermal Noise Of A Delay System Cn The Minimum Noise Factor Of A TWI"

V sb. Vopr. elektron. tekhn. (Problems Of Electronic Technology--Collection Of Works), Issue 2, Saratov, Saratov University, 1971, pp 150-154 (from RZh--Elektronika i yeye primeneniye, No 3, March 1972, Abstract No 3A79)

Translation: The effect is theoretically studied of the thermal noise of a delay system (DS) on the minimum noise factor of a traveling-wave tube with an arbitrary law for the temperature distribution of the DS. An expression for the minimum noise factor as a function of the antenna temperature, the function of temperature distribution of the DS, and the Pierce parameters for a TWT are obtained. Graphs are constructed for various functions of the temperature distribution. It is established that for a reduction of the minimum noise factor in superlow noise TWTs it is necessary to cool the input part of the DS. 3 ref.R.M.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

UDC 621.385.632

USSR

COLUBERTSEV. A.Z., MINKIN, L.M.

"Concerning The Effect Of Current Settling In Electron Gun Cn Minimum Noise Factor Of TWT"

V sb. Vopr. elektron.tekhn. (Problems Of Electronic Technology--Collection Of Works), Issue 2, Saratov, Saratov University, 1971, pp 137-145 (from RZh--Elektronika i yeye primeneniye, No 3, March 1972, Abstract No 3A80)

Translation: The effect is theoretically investigated of current settling [tokoosedaniye] in an electron gun (EG) on the minimum noise factor of a TWT. The conclusion is made that current settling in an EG, in contrast to current settling in the interaction region, does not constitute a serious threat in the sense of a considerable increase of the noise factor of a TWT. Use of special electrodes leading to current interception in the region of the EG is able to prevent current settling inside the delay system, which leads to a decrease of the noise factor. 7 ref. R.M.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

UDC 621.389.6

GOLUBENTSEV, A.F.

"Concerning Use Of Special Systems Of Polynomials For Determination Of The Gain Of Microwave Devices with Prolonged Interaction"

V sb. Voor. elektron. tekhn. (Problems Of Electronics Technology--Collection Of Works), No 2, Saratov, Saratov University, 1971, pp 74-82 (from RZh:Elektronika i yeye primeneniye, No 2, Feb 72, Abstract No 2A35)

Translation: A method is described for determining the gain of microwave devices, based on the use of special systems of polynomials. The method makes it possible to avoid the solution of characteristic equations and can be used for calculation, not only of traveling-wave tubes, but also for other microwave devices. It is shown that in practice the gain computed by the proposed approximate formulaes agrees with the precise value of the gain if the power of the polynomial n=6. δ ref. V.M.

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UDC 621.385.633

GCIUBENTSEV, A.F., MINKIN, L.M.

"Effect Of Current Interception At Input To Delay System On The Noise Factor Of BdT"

V sb. Vopr. elektron.tekhn. (Problems Of Electronics Technology--Collection Of Works), No 2, Saratov, Saratov University, 1971, pp 146-149 (From REh: Elektronika i yeye primeneniye, No 2, Feb 72, Abstract No 2A158)

Translation: It is known that current subsidence [tokoosedaniye] in the interaction region leads to a significant increase of the minimum noise factor of a traveling-wave tube (TWT). The effect of current interception [tokopereknyat] on the noise factor of a backward-wave tube (BWT) is analyzed. It is shown that under specific conditions, the minimum noise factor of a BWT is smaller than the noise factor of a TWT. Consequently, during construction of super low noise microwave amplifiers with current subsidence conditions at the input to a delay system it is preferable to use a BWT. V.M.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

ELECTRONICS

Amplifiers

USSR

UDO 621.385.832.032.21.001.5

GOWBENTSEY, A.F., TERZHOY, I.I.

"Minimum Noise Factor Of Microsave Beam Amplifiers Of M-Type"

Radiotekhnika i elektronika, Vol XVII, No 3, Mar 1972, pp 569-576

Abstract: After a review of works concerned with the development of the theory of noise in M-type microwave beam devices, the paper proceeds, with the use of the theorem of kinetic power (with a low signal) for thin beams in crossed fields, to obtain a general expression for the minimum noise factor of microwave amplifiers of M-type. The effect of distributed losses in the delay system on the noise factor is taken into consideration. If ig. 18 ref. Received by editors, 13 July 70.

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UDC 621.385.632

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GOLUBENTSEV, A. F., and POLYAKOV, O. S.

"Study of Noise in Continuous Power TWT"

Elektron. tekhnika. Nauch.-tekh. sb. Elektron. SVCh (Electronics Technology), Scientific-Technical Collection. Microwave Electronics), 1971, Issue 4, pp 117-126 (from RZh-Elektronika i yeye primeneniye, No 8, August 1971, Abstract No 8A185)

Translation: Some problems are considered of the theory of amplitude and phase fluctuations of the cutput signal of a traveling-wave tube in linear operating conditions. In the frequency tuning range of 0.2-6.5 MHz, a study is conducted of the noise factor and the spectral density of the fluctuations of the amplitude and phase of the output signal, using a model of a TWT. The connection is established between the intensity of fluctuations and the noise factor. The calculations conducted and the experimental results show that the noise of the input signal and the additive high-frequency noise can exert a considerable effect on the observed level of amplitude and phase fluctuations of the output signal. 8 ref. S ummary.

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GOLUBENTSEY, A. F., MINKIN, L.M.

*Amplitude And Phase Noise Cf A TaT Resulting From Low-Frequency Fluctuations Of Current (Summary Cf Deposited Manuscript)"

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronics Technology. Scientific-Technical Collection. Microwave Electronica), 1970, No 6, pp 110-111 (from RZh-Elektronike i yeye primeneniye, No 10, October 1970, Abstract No 10A162)

Translation: The paper considers the high-frequency noise of the output voltage in a TWT caused by low-frequency fluctuations of the electron beam current. It is assumed that the upper limit of the fluctuation frequency is considerably below the signal frequency so that a calculation of the spectrum of low-frequency amplitude and phase noise can be conducted quasistatically, i.e., it can be reduced to a calculation of the indicated magnitudes which are determined by a static solution. The following conclusions were made on the basis of the investigation conducted: 1) The lowfrequency fluctuations of the current lead to low-frequency fluctuations of the amplitude and phase of the output voltage of the TWT; 2) The basic sources of modulation of the low-frequency noise are the noise of current distribution and the ionization effect, and at sufficiently low frequency -- the flicker effect; 3) The spectrum of the amplitude and phase noise resulting from the low-frequency current fluctuations is significantly determined by the operating conditions of the THT. Summery.

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GOLUEENTSEY, A.F., TERCHOY, I.I.

"Minimizing The Noise Factor Of Beam Microwave Amplifiers As A Problem For The Theory Of Catimum Control (Summary Of Deposited Manuscript)"

Elektron, tekhnika, Nauchno-tekhn, sb. Elektron SVOh (Electronics Technology, Scientific-Technical Collection, Microwave Electronics), 1970, No 2, pp 84-85 (from REh--Elektronika i yaya primananiya, No 8, August 1970, Abstract No SA141)

Translation: The problem of finding the minimum noise factor for a beam microwave amplifier is a typical variation of problems of the type of Mayer's problem, which in its turn can be reduced to a variation of the Lagrange problem on the conditional extremum. Utilizing the methods of the mathematical theory of optimum processes, based on use of the maximum principle of L. S. Pontryagin, it is possible to reduce a variational problem to a curve. The process of calculation is given for an optimum transformer consisting of two exponential transformers of space charge waves and the corresponding design of a low-noise electron gun which is most often realized in Type C microwave amplifiers. Systems of differential equations are obtained for the transformers being optimized, which are solved with the sid of a computer with piecewise continuous or a differentiable derivative of the distribution of the characteristic impedence with respect to the axis of the beam. 1 ref. G.B.

USSR UDC 534

GOLUBENTSEV, A. N., LIKHOVID, P. I.

"On a Problem of the Optimization of Transfer Processes for Certain Mechanical Systems"

Dinamika i prochnost' mashin. Resp. mezhved. nauch.-tekhn. sb. (Machine Dynamics and Strength. Republic Interdepartmental Scientific-Technical Collection), 1971, No. 12, pp 90-95 (from RZh-Mekhanika, No 9, Sep 71, Abstract No 9Al29)

Translation: The problem of optimization of the transfer process in a machine as a mechanical system consisting of a chain of discrete masses connected by elastic links is discussed. The problem reduces to solving a system of independent differential equations of a high order obtained from a system of differential equations of the motion of discrete masses of the system and written with respect to the elastic forces developed in the links during the transfer process. The equations of motion are integrated by constructing Cauchy integrals representing the response of the system to an external load of arbitrary form with preliminary substitution of the initial conditions of motion by an external load equivalent to them. It is shown what conditions the coefficients of the differential

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

GOLUBENTSEV, A. N., LIKHOVID. P. I., Dinamika i prochnost' mashin. Resp. mezhved. nauch.-tekhn. sb., 1971, No. 12, pp 90-95

equation of motion (the parameters of the system) must satisfy in order that the maximum deviation of the elastic force with respect to its absolute value be the least under an external load limited with respect to the modulus. The problem is solved for the case when the characteristic equation has only purely imaginary roots. Authors abstract.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

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UDC 531.8

GOLUBENTSEV, A. N., LOPATIN, A. K.

"On the Solution of Complex Problems in the Dynamics of Machines With Nonstationary Links"

V sb. Dinamika mashin (Machine Dynamics -- Collection of Works), Moscow, 1969, pp 105-107 (from RZh-Mekhanika, No 5, May 70, Abstract No 5A194)

Translation: The linear equations for the dynamics of machines with nonstationary links of complex kinematic structure are considered. A method of algebraic reduction is proposed through which one can expand the equivalent machine diagram into a series of more simple, unconnected diagrams. Necessary and sufficient criteria for the reduction are given. An example is discussed. Authors abstract.

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Polymers and Polymerization

UDC 678.06-419.8:677.521

GOLUBENKOVA, L. I., DENEKHINA, YE. M., CHIBISOVA, YE. I., and NIKONOVA, S. N.

"Cements for Plexiglas Based on Epoxy-Novolak Resins"

Moscow, Plasticheskiye Massy, No 4, 1973, pp 12-14

Abstract: The strength characteristics of the bonding resins 6EN and 18EN were determined. These compounds contain 18-22% epoxy groups and have a drop depression temperature of 60-70°C. Addition of anilinephenol formaldehyde resin (211) to both 6EN and 18EN significantly improved the properties. The strength characteristics for both resins are similar and rather high at room temperature and up to about 200°C. However, the resin 6EN+211 is better suited to technical applications because impregnation of the plexiglass by the resin results in only a small change in the properties of the plexiglass.

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CIA-RDP86-00513R002200930006-9" APPROVED FOR RELEASE: 09/19/2001

UDC 615.849.2.015.25.038

USSR

VLADIMIROV, V. G., DZHARAK'YAN, T. K., BERLIN, L. B., GOLUBENTSEV, D. A., and SMIRNOV, A. D., Military Medical Academy imeni S. M. Kirov, Leningrad

"Some Criteria for Evaluating the Effectiveness of Radioprotective Agents in Man"

Moscow, Meditsinskaya Radiologiya, Vol 16, No 9, Sep 71, pp 54-60

Abstract: Since cystamine hydrochloride effectively protects mice from radiation sickness, the dose given per unit of body surface was extrapolated to the average size of man, and a dose of 3 g was calculated (taken internally) as the probable, optimum protective dose for man. Tolerable doses of cystamine (0.8-1.2 gm) given to patients with pulmonary or pelvic tumors prior to single local treatments with x-rays and gamma-rays reduced the number of chromosome aberrations in myeloid cells and lymphocytes in the peripheral blood by 40%. Evidence indicates that a prophylactic intake of the tolerable dose of cystamine hydrochloride will significantly protect men in cases of accidental exposure to ionizing radiation.

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UDC 615.849.1.015.25.034.61

GOLUBENTSEV, D. A., MERKINA, T. N., MORDUKHOVICH, V. V., and TITOV, A. V.

"The Effect of Ionizing Radiation on the Excretion of Radioprotectors in Rats'

Moscow, Farmakologiya i Toksikologiya, Vol 35, No 5, Sep-Oct 70, pp 607-610

Abstract: Administration of sulfur containing radioprotectors such as β mercaptoethylamine (MEA), cystamine, or cystophos in optimal doses to nonirradiated rats produces a sharp rise of non-protein thiols in the urine due to excretion of MEA. When cystamine is administered, the amount of MEA excreted in urine is twice as low as when MEA itself is used. Administration of sulfur containing protectors in combination with serotonin lowers considerably the excretion of non-protein thiols in urine. A whole body irradiation of rats at a dose of 700 r (LD 100/30) 5-10 min after administration of the radioprotector results in a drastic drop of the excretion of MEA. This indicates a change in metabolism due to the effect of radiation.

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CIA-RDP86-00513R002200930006-9" APPROVED FOR RELEASE: 09/19/2001

USSR

UDC: 620.176.162

BARRY, YU. I., GOLUBETS, V. M., VYGOVSKIY, I. P., RYABOV, B. F., and GNATYSHAK, N. N.

"Effect of White Layer on Wear Resistance of 50X Steel"

Kiev, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 7, No 5, 1971, pp 7-10

Abstract: An experimental investigation of the effect of white layer on the wear resistance of 50%(0.49% C, 0.21% Si, 0.65% Mn; 1% Cr, 0.21% M1) steel was conducted.

The white layer was formed by turning the specimen journal ring on the lath, with 88 meter/min cutting speed and 0.15 mm depth of cut, or by means of mechanical-ultrasonic treatment.

Test showed that the wear resistance of the specimens with white layer was equal to the ones, which were quenched at 850° C and drawn at 180° C. The wear of these specimens was about one third of the wear of unimproved specimens. The wear of the bronze and steel bushings rubbing against these specimens was reduced by about the same amount.

The white layer is formed by quenching and drawing due to the heat gener-

ated by the cutting tool.

The microradigraphic spectral analysis showed that the content of carton, 1/2

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BAREY, YU, I., et al., Fiziko-Khimicheskaya Mekhanika Materialov, Vol 7, No 5, 1971, pp 7-10

chrome and other carbide-forming elements is higher in the white layer and lower in the sublayer than in the original metal.

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Magnes 1um

USSR

UDC 669.721.472(088.8)

ZUYEV, N. M., IVANOV, A. B., VUKOLOV, V. V., SHARUNOVA, G. M., KASHKAROV, A. Z., DONSKIKH, P. A., KOLESNIKOV, A. V., GOLUBEV, A., A., SPRYGIN, A. I., KOLESNIKOV, V. A., and KUZ'MIN, V. V., All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium and Electrode Industry, and Berezniki Titanium-Magnesium Combine.

"Device for Conveying Liquid Electrolyte and Magnesium"

USSR Authors' Certificate No 259396, Cl. 40c, 3/02; 40c, 3/08, (C 22d), filed 21 Oct 68, published 28 Apr 70 (from RZh-Metallurgiya, No 12, Dec 70, Abstract No 12 G250 P)

Translation: In order to utilize the heat of the exothermic reactions taking place during the mixing of reversible electrolyte with MgCl₂ and to preclude the consumption of electric energy for heating the main conveyer lines, a pipeline for conveying the reversible electrolyte and metallic magnesium was installed inside a trough-shaped channel to convey a magnesium chloride-enriched electrolyte, the pipeline being connected at one end with the last electrolyzer of the flow line, and at the other with a mixer, while the trough-shaped channel is connected with the lead electrolyzer and the mixer.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

Magnesium

USSR

UDC 669.721.472(088.8)

ZUYEV, N. M., KASHKAROV, A. Z., IVANOV, A. B., KOLESNIKOV, A. V., and GOLUBEV, A. A.

"Method of Transporting Electrolytes for the Production of Magnesium

USSR Author's certificate No. 263894, Filed 21/10/68, Published 8/06/70, (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No. 1 G170 P)

Translation: The method includes utilization of a pipeline and pump. In order to avoid expending electric power to heat the pipelines by using the heat of the exothermic reaction occurring upon mixing of the circulating electrolyte with MgCl₂, the circulating electrolyte is fed

to a mixer for enrichment with magnesium chloride through a pipe contained in a trough, while the electrolyte enriched with magnesium chloride is returned from the mixer to the electrolyzers through the trough.

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UDC: 621.373.444

USSR

GCLUBEV, A. D. and SHATS, S. Ya.

"Inductive Relaxation Circuits Using Secondary-Emission Tubes"

Moscow, <u>Izvestia VUZ -- Radioelektronika</u>, Vol. 25, No. 10, 1970, pp 95-98

Abstract: Details of the operation and the design of a relaxation oscillator involving an inductance in the dynode circuit of a secondary emission tube are given. The circuit operation is based on the fact that the static and dynamic dynode characteristics of the tube are N-shaped. Where this differs from other devices with similarly shaped characteristics, such as dynatrons and tunnel diodes, is that the initial section of the curve is horizontal rather than rising. Two circuit diagrams of the oscillator are given. The first is the simpler variety, the inductive relaxation circuit, whose principle of operation is based on the use of the static dynode characteristic. A more complex type is the second, the inductance-capacitance circuit, which generates pulses with practically even peaks. Its pulses can be made much wider or narrower than those of the conventional resistance-capacitance relaxation oscillator circuit. Oscillograms of the circuit's output pulses are shown.

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UDC 621.396.666(088.8)

GOLUBEV, A. D., KOLBASOV, G. V.

"Amplifier with Automatic Gain Control"

USSR Author's Certificate No 253169, Filed 6 Jul 67, Published 24 Feb 70 (from RZh-Radiotekhnika, No 9, Sep 70, Abstract No 9D136P)

Translation: An amplifier with automatic gain control is proposed. In order to obtain signals with constant amplitude within a broad dynamic range at the output, a threshold device, a pulse expander and a pulse storage unit are connected in series to the automatic gain control circuit.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

Circuit Theory

USSR

UDC: 621.374.5

COLUBEV, A. G., PORTNOY, M. S., KHANOVICH, I. G.

"Effect Which the Relationship Between Acoustic Resistances of Component Elements in an Electromechanical Delay Line Has on the Amplitude-Frequency Response of the Line"

Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR (Works of Educational Institutes of Communications. Ministry of Communications of the USSR), 1970, vyp. 49, pp 157-162 (from RZh-Radiotekhnika, No 2, Feb 71, Abstract No 2G313)

Translation: The authors investigate the way in which the width of the passband and signal attenuation are affected by the relationship between acoustic resistances in a piezoelectric converter and acoustic line (in the absence of an intermediate layer), and in addition the parameters of the amplitude-frequency response of the delay line are determined as a function of the relationship between the acoustic resistances of the piezoelectric converter and a solder (or cement) layer for the corresponding optimum condition. Bibliography of one title. Resumé.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

UDO 621.385.032.11:621.385.019.3

USSR

KRAPINA, M.A., SYTILIN, N.S., GOLUBEV, A.I.

"Partial Pressures Of Residual Gases In Long-Life TWTs"

Elektron. tekhnika. Nauchno-tekhn. ab. Elektron SVCh (Electronic Technology. Scientific-Technical Collection. Microwave Electronica), 1970, Issue 9, pp 105-109 (from RZh--Elektronika i yeye primeneniye, No 1, Jamuary 1971, Abstract No 1A94)

Translation: The spectrum was investigated of the residual gases in experimental electrovacuum devices (based on a traveling-wave tube) with a titanium nonpulverized getter, and without it. Pumping was conducted by mechanical forevacuum and highwacuum electrical discharge pumps. The spectrum of the residual gases was investigated on a IPDO-1 device with three regimes of the tube: in a cold state, with working voltage of the heater, and in a regime of current transmission at the collector. The basic components of the ambient gases in tubes with a getter were H2 and Ag. The pressure of Ag with current selection was substantially decreased and the pressure of H2 remained stable in all operating conditions. The total pressure of the residual gases in tubes in a cold state is 2.10-8 mm mercury, and in a regime of current selection is 8.10-9 mm mercury. Without a getter, the pressure was primarily determined by argon and amounted to

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

KRAPINA, M. A., et al., Elektron. tekhnika. Nauchno-tekhn. sb. Elektron SVCh, 1970, Issue 9, pp 105-109 (from RZh-Elektronika i yeye primeneniye, No 1, Jan 1971, Abstract No 1A94)

2.5. 10^{-8} mm mercury (in a cold state), and the pressure of CO amounted to 5. 10^{-9} mm mercury. With switching on of the tube heater the CO pressured increased to 5. 10^{-8} mm mercury. In passing to operating conditions the partial pressure of Ar was sharply decreased ($\sim 1/10$) and the pressure of H₂ was increased from 3. 10^{-10} mm of mercury to 10^{-8} $\stackrel{?}{\cdot}$ 10^{-7} mm or mercury. In TWT without built-in pumps and getters, a pressure of 2. 10^{-8} mm of mercury was maintained because of the aperture in cathode which makes it possible to conduct more effective pumping of the gases. On the basis of the results of the tests of the long life of such tubes the conclusion is made that the atmosphere of residual gases, the basic components of which are H₂ (2. 10^{-8} mm mercury), OO (5. 10^{-9}) and Ar (5. 10^{-9}) are favorable for TWT operation during many thousands of hours. 5 ill. 5 ref. G.B.

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UDO 621.582.3

USSR

GOLUBEY, A.P., SALAKHUTDINOV, V.KH.

"Low-Frequency Smell-Signal Parameters Cf Silicon Planar Transistors In A Regime Cf Microcurrents"

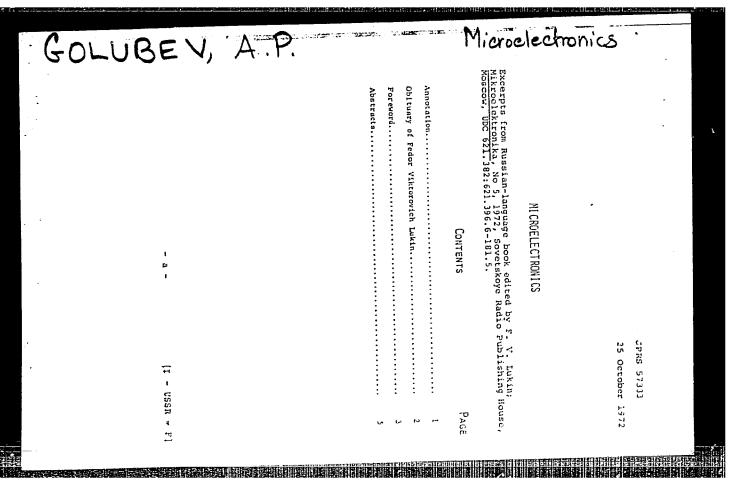
Sb.nauch.tr. po probl.mikroelektron. Mosk.in-t elektron.tekhn. (Collection Of Scientific Works On Problems Of Microelectronics. Moscow Institute Cf Electronics Technology), 1972, Issue 10, pp 169-174 (from RZh:Elektronika i yeye primeneniye, No 11, Nov 1972, Abstract No 11E254)

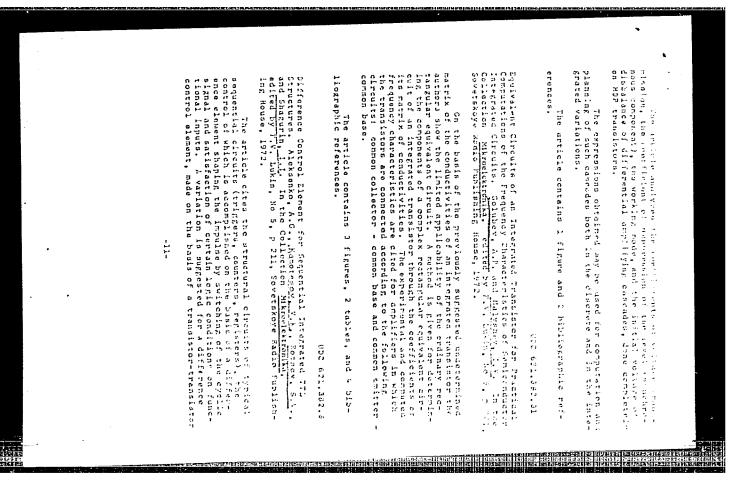
Translation: Theoretical dependences are obtained for calculation of the low-frequency small-signal parameters of silicon planer translators in a regime of microcurrents, and the method of calculation is discussed. It is shown that the calculated values of the parameters agree well with the experimental. 3 ill. 5 ref. V.B.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"





USSR

UDÇ 612.133.08

LEBEDEV, V. P., and GOLUBEV, A. P., Laboratory of the Physiology of Blood Circulation, Institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR, Leningrad

"Recording Arterial Blood Pressure by Means of an Unspecialized Tape Recorder in a Form Suitable for Subsequent Digital Analysis"

Leningrad, Fiziologicheskiy Zhurnal, No 2, Feb 72, pp 285-286

Abstract: A general-purpose tape recorder which is not suitable for recording signals with a constant component has been adapted for use as a readily available intermediate storage unit to collect data for subsequent digital processing. For this purpose, the constant arterial-pressure curve is not recorded, but only its amplitude values; these, in the form of short pulses, can be taken down on an ordinary tape recorder. In this manner, it is also possible to record several processes on a single track by taking down several coordinates of different processes with a definite time sequence. When the same sequence is observed in the read-out process, separate digital measuresments of the several processes can easily be accomplished.

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- 54 -

UDC: 69.058.5

RUPPENEYT, K. V., DENISOV, V. N., TARASOVA, I. V., COLUBEY A. V., Scientific Research Institute of Foundations and Subterranean Structures

"A Method of Studying Rock Masses and Liners of Subterranean Structures"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 7, Mar 72, Author's Certificate No 329417, Division G, filed 26 Jun 70, published 9 Feb 72, p 163

Translation: This Author's Certificate introduces a method of studying rock masses and liners of subterranean structures by measuring stresses in a drilled shaft. As a distinguishing feature of the patent, accuracy is improved by returning the rock mass to its initial position after measuring the stresses in the drilled shaft, using pickups to register the pressure in the rock mass.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

GOLUBEV, D., Doctor of Medical Sciences, Professor

"Viruses and Chromosomes"

Moscow, Nauka i Zhizn', No 10, Oct 70, pp 39-40

Abstract: The mutagenic effects of viruses on chromosomes were studied. Viruses are intracellular parasites, and upon penetrating into the cell continue to replicate. It is also known that viruses of infectious diseases can cause various disorders in the chromosome structure. The extent of these disorders depends on the number of viral particles in the cell and the degree of their toxicity. Laboratory experiments have established that these viruses can be mutagenic and capable of disorienting the hereditary these viruses can be mutagenic and capable of disorienting the hereditary apparatus. This, however, does not mean that in all cases of viral infectious diseases the virus-mutagens form a threat to future cellular fectious diseases the virus-mutagens form a threat to future cellular generations. Not all of the indicated viruses are mutagenic. Furthermore, the greater the changes induced by viruses in cell chromosomes, the smaller the probability of survivial of these cells; they either simply perish or, upon mitosis, produce cells with little chance of survival.

- 8 -

USSR

GOLUBEV, D., Nauka i Zhizn', No 10, Oct 70, pp 39-40

It may be definitely said that in most cases of viral infectious diseases, including influenza, ordinary measles, parotitis, and many others, all cells with damaged chromosomes gradually perish and thus present little threat of inducing hereditary abnormalities. There are a few exceptions, the best known of which is rubella. There are also viruses which, upon recovery of the patient, do not leave the organism, but remain there and reproduce in the cells. These, however, do not affect the chromosome structure.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

UDC 616.988.75+616.2-022.67-078:061.3(47)"1970"

USSR

GOLUBEV, D. B., Professor, and KAMFORIN, L. YE., Candidate of Medical Sciences

"Symposium on Express Diagnosis of Influenza and Acute Viral Respiratory Diseases by the Fluorescent Antibody Method"

Moscow, Voprosy Virusologii, No 6, Nov/Dec 71, pp 748-750

Abstract: The symposium was organized by Ministry of Health USSR and the All-Union Scientific Research Institute of Influenza in Leningrad on 13-15 May 1970. Seven long papers and 20 brief communications were presented, including: a review of FA (fluorescent antibody) research and its application in the USSR and abroad, by Prof. A. A. Smorodintsev; a report on the use of the IF (immunofluorescent) method in the diagnosis of influenza and acute respiratory diseases in Leningrad in 1968-1970, by Prof. D. B. Golubev; and a comparative evaluation of FA and cytological methods, by Prof. N. A. Maksimovich. The following recommendations were issued to the Ministry of Health USSR: 1) to specify the dates on which the various medical institutions must introduce IF methods in the diagnosis of acute respiratory diseases; must introduce IF methods in the diagnosis of acute respiratory diseases; 2) to increase the manufacture of the high-quality ML-3 microscopes, to reduce its price, and to supply it to all polyclinics and hospitals; 3) to manufacture adequate quantitites of standard diagnostic FA preparations; 4) to

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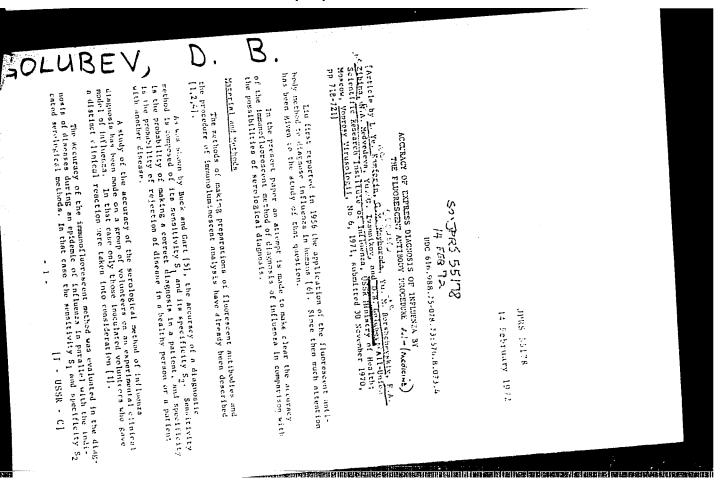
USSR

GOLUBEV, D. B., and KAMFORIN, L. YE., Voprosy Virusologii, No 6, Nov/Dec 71, pp 748-750

manufacture adequate numbers of mercury-quartz lamps; 5) to organize regular training courses in IF methods; and 6) to expand research on improving IF methods of diagnosing acute respiratory diseases.

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UDC 576.858

USSR

SMORODINTSEV, A. A., and GOLUBEV, D. B. All Union Scientific Research Influenza Institute, Ministry of Health USSR

"The Problem of the Biological Nature of A Virus"

Moscow, Uspekhi Sovremennoy Biologii, Vol 69, No 2, Mar/Apr 70, pp 208-219

Abstract: This is a review article with 31 references on the molecular organization of viruses. Brief mention of the recent work of V. M. Zhdanov, Gaydamovich. A. F. Bykovskiy, N. A. Zeytlenok, Drtsenik, P. N. Kosyakov, M. B. Korolev, D. B. Golubev, and A. A. Smorodintsen are included.

1/1

PROCESSING DATE--04DEC70 UNCLASSIFIED 1/2 012

TITLE--INFLUENCE OF THE COMPOSITION OF A REACTION MIXTURE ON MIXYLENE

AUTHOR-(05)-ALEKSANDROV, V.N., GOLUBEV, G.S., GITIS, S.S., ZABELINA, G.V.,

SAVINOVA, V.V.

COUNTRY OF INFO--USSR

SOURCE--KHIM. PROM. (MOSCOW) 1970, 46(5), 341-3

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--XYLENE, OXIDATION, ORGANOCOBALT COMPOUND, CATALYST ACTIVITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0892

STEP NO--UR/0064/70/046/005/0341/0343

CIRC ACCESSION NO--APO137920

UNCLASSIFIED

PROCESSING DATE--04DEC70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--AP0137920 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CO(OAC) SUB2 CATALYZED, BR INITIATED OXION. OF M.ME SUB2 C SUB6 H SUB4 (I) AT A CONCN. OF 2 MOLES-L. IN HOAC SOLN. BY AIR ADMITTED AT 150DEGREES AND UNDER 20 ATM PRESSURE WAS 0.2-0.5 ORDER IN BR, 1-2 ORDER IN CO, AND 1.7-0.4 ORDER IN THE ORDER IN FELL AS I CONCN. ROSE FROM 0.5 TO 2 MOLES-L. AT THE OPTIMAL CO, BR RATIO (2:1 TO 1:1), M, (HO SUB2 C) SUB2 C SUB6 H SUB4 (II) YIELDS WERE 86.9, 83.7, 71.2, 81.0, 79.0, 83.3, 85.8, AND 87.1PERCENT WHEN THE INITIATORS WERE NH SUB4 BR, CHBR SUB3, C SUB2 H SUB2 BR SUB4, P, (BRCH SUB2) SUB2 C SUB6 H SUB4, BR SUB2, HBRO SUB3, HBR, AND COBR SUB2, RESP. WHEN CO(OAC) SUB2 WAS REPLACED BY THE MN SALT, THE REACTION RATE WAS REDUCED AND II YIELDS WERE 49.9PERCENT, BUT WHEN MIXTS. OF THESE CATALYSTS WERE USED, REACTION RATES APPROACHED THOSE FOR CO(OAC) SUB2 CATALYZED OXIDN. AND II YIELDS WERE 80.8-7. OPERCENT.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

Luminescense

USSR

UDC 661.143:546.431'821'185(088.8)

GUGEL', B. M., LODYGIN, N. A., GOLUBEV, I. F., KHIZHA, V. S., BLYAKHMAN, E. A., KUTSENKO, N. A., SIDOROV, M. D., ZVYAGIN, V. B., VAKHRAMOV, V. P., AGAPOV, V. I., GARKUSHA, V. A., KHUSAINOVA, R. S.

"Phosphor for Low-Pressure Luminescent Tubes"

USSR Author's Certificate No 336342, filed 19 May 70, published 22 May 72 (from RZh-Khimiya, No 2(II), Feb 73, Abstract No 2L148P)

Translation: In order to increase the light yield of the tubes, the proposed phosphor includes the following: barium-titanium phosphate, calcium halophosphate, strontium and magnesium orthophosphate and magnesium fluorogermanate. The barium-titanium phosphate, the calcium halophosphate, the strontium orthophosphate, magnesium orthophosphate and magnesium fluorogermanate are introduced in the following proportions by weight: 4-6:2.5-4:0.4-0.8:0.13-0.25 respectively. As an example, let us take weighed samples of 4.36 kg of barium-titanium phosphate, 3.84 kg of calcium halophosphate, 0.40 kg of magnesium-strontium orthophosphate and 0.24 kg of magnesium fluorogermanate. Put them in a porecelain cylinder and mix for 1 hour. A suspension is prepared from the mixture obtained and it is applied to the tubes.

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UDC 661.143.046.4

GOLIBEV. I. F., MIRONOV, K. YE., TANAHAYEV, A. N., and KINDZHIBALO, L. N.

"Chemical Transformations During Heating of Mixtures of BaHPO $_{\!4}$, TiO $_{\!2}$, BaF $_{\!2}$ and $(NH_4)_2HPO_4$ "

Sb. nauch. tr. VNII lyuminoforov i osobo chist. veshchestv (Collection of Scientific Works of All-Union Scientific Hesearch Institute for Phosphors and Ultrapure Substances), 1971, vyp. 6, pp 7-18 (English summary) (from RZh-Khimiya, No 14, 25 Jul 72, Abstract No 14L130 from summary)

Translation: A study was made by thermographic, roentgenographic and luminescent methods of analysis of the chemical interaction during heating of mixtures of BalPO_{\parallel} , TrO_{2} , BaF_{2} and $(\text{BH}_{\parallel})_{2}\text{HPO}_{\parallel}$. Formation of the luminescent phase of $2\text{BaO} \cdot \text{TrO}_{2} \cdot P_{2}O_{5}$ from $\text{BallPO}_{\parallel}$ and TrO_{2} begins at temperature > 800° with the phase transformation of $\text{Ba}_{2}P_{2}O_{5}$. On the addition of PaF_{2} and $(\text{BH}_{\parallel})_{2}\text{MPO}_{\parallel}$ below 100° barium metaphosphate is formed, which plays the role of flux in the formation of $2\text{BaO} \cdot \text{TrO}_{2} \cdot P_{2}O_{5}$. Bibliography with nine titles.

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- 13 -

Acc. Nr:

AP0044594

Ref. Code: UR0497

PRIMARY SOURCE:

Klinicheskaya Meditsina, 1970, Vol 48,

Nr 1 , pp 31-76

BLOOD STREPTASE IN THE DIAGNOSIS OF RHEUMOCARDITIS
IN PATIENTS SUFFERING FROM CARDIAC FAILURE
AT REMOTE POSTOPERATIVE PERIODS

1. S. Golubev, SYE. Yufit, A. V. Plyaskina
Summary

The authors describe the clinico-laboratory signs of rheumocarditis in 34 patients with rheumatic cardiac diseases at remote periods after the operation. By means of clinico-laboratory confrontations the authors stress the importance of the new test in the diagnosis of rheumocarditis. The authors are of the opinion that the streptase titer is a valuable auxiliary diagnostic test in the complex investigation of patients with active rheumocarditis, especially in its torpid course. One could assess the effectiveness of treatment by changes of the streptase titer in patients suffering from active rheumocarditis.

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REEL/FRAME 19771270

TH 02

GOLUBEV, LIT.		
[I - USSR - K]	ABSTRACT	UTILIZING THE REACTOR INSTALLATIONS AT THE NOVO-VORONEZH ATOMIC ELECTRIC POWER PLANT Excerpts from Russian-language book by F. Ya. Ovchinnikov, L. Voronin, L. I. Golubry, et al.: Ekepluatatsiya Reakcornykh ustanovok Rovo-Voronalnakov, AES, 1977, Atomizdat, Hoacov, pp 1-70.
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UDC 621.039.564.001.5

GOLUBEV, L. I. and LOMAKIN, S. S., Candidates of Technical Sciences

"Investigating Heutron Fields in the Novovoronezh Atomic Power Station Reactors"

Moscow, Teploenergetika, No. 10, 1971, pp 57-59

Abstract: Research into the neutron fields and their control in the process of atomic electrical power plants, as used in two watermoderated, water-cooled power reactors in the Movovoronezh Atomic Power Plant, are discussed. Both have an operating pressure of 100 kgs/cm². The service period of this type of reactor is determined by the service periods of its inner construction and its steel body, by the service periods of its inner construction and its steel body, both of which are subject to the service of which are subject to the service. both of which are subject to the action of high-energy neutrons as well as force and temperature stresses. The article discusses the control systems of the neutron fields in the reactors and shows how the method of activation detection, as the most convenient one for intrareactor measurements, is used for measuring the parameters of neutron fields.

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- 129 -

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UDC 621.315.598:546.28

USSR

GOLUBEV, L. V., VUL', A. Ya., and SHMARTSEV, Yu. V.

"Growth of Single Crystals of Gallium Antimonide Doped With Tellurium or Sulfur"

V sb. Protessy rosta kristallov i plenok poluprovodn. (Procedures for the Growth of Semiconductor Crystals and Films -- Collection of Works), Novosibirsk, 1970, pp 485-493 (from RZh-Elektronika i yeye primeneniye, No 7, July 1971, Abstract No 7B123)

Translation: The preparation of single crystals of GaSb by the Czochralski method is described. To, S, Sb₂S₃, GaS, and Ga₂S₃ were used for doping. Seeding was performed in the (111) plane. In order to decrease the density of dislocations, the diameter of the initial part of the crystal was decreased to 1.5 2 mm at a length of 15 20 mm which assured emergence to the crystal surface of dislocations germinor 15 20 mm which assured emergence to the crystal surface of dislocations germinor ating from the seed. With the introduction of elemental Te into the melt, single crystals of the n type were obtained with concentrations of free electrons of 10¹7—crystals of the n type were obtained with concentrations of free electrons of 10¹7—crystals of the n type were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained, 65-70 mm long with a 5 · 10¹⁸. During doping by S, single crystals were obtained to 0.1--(2 ² ³) dismeter of 12-15 mm. The resistivity for p-type ingots amounted to 0.1--(2 ² ³) dismeter of 12-15 mm. The resistivity for p-type ingots amounted to 0.1--(2 ² ³) dismeter of 12-15 mm. The resistivity for p-type ingots amounted to 0.1--(2 ² ³) dismeter of 12-15 mm. The resistivity for p-type ingots amounted to 0.1--(2 ² ³) dismeter of 12-15 mm. The resistivity for p-type ingots amou

USSR

GOLUBEV, L. V., et al., Protessy rosta kristallov i plenok poluprovodn. (Procedures for the Growth of Semiconductor Crystals and Films -- Collection of Works), Novosibirsk, 1970, pp 485-493 (from RZh-Elektronika i yeye primeneniye, No 7, July 1971, Abstract No 7B123)

obtain n-type GaSb it is necessary to introduce into the melt an excess of Ga, filling vacant places in the sublattice of Ga. Use of the compounds GaS and Ga2S3 gives the best results as alloys. 7 ref. N.Sh.

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UDC 612.014.21.015.12:(616.12:612.273.2.017.2

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MEYERSON, F. Z., PARCHENKO, L. F., COLUBEVA, L. Yu., LYUBINITSEVA, O. N., and PORTENKO, N. G. Laboratory of Experimental Cardiology Institute of Normal and Pathological Physiology USSR, and Chair of Biochemistry Medicobiological Faculty, Second Moscow Medical Institute imeni N. I. Pirogov

"The Role of the Lysosome System in the Prophylactic Effect of Adaptation to High-Altitude Hypoxia in Disorders of the Heart"

Moscow, Kardiologiya, Vol 10, No 7, Jul 70, pp 71-79

Abstract: It was previously determined that systematic adaptation of animals to intermittent high-altitude hypoxia increases the resistance of the heart to acute stress. In an extension of this work, the lysosome systems containing protein hydrolases (e.g., DNA-ase, RNA-ase, and phosphatase) were studied, using trained and untrained rats. In trained animals, sudden high-altitude hypoxia was found to result in a general increase in the levels of the three lysosome protein ases (to 124-135%), a decrease in the content of free protein ases (68.4-81.5%) and a marked increase in the level of bound protein ases (244-268%). In untrained animals, levels of all protein ases decreased except the level of bound RNA-ase, which increased to 140.2%. Similar results were obtained in the latter group under conditions of coarctation. Sudden hyperfunction of the heart in trained animals 1/2

USSR

MEYERSON, F. Z., et al., Kardiologiya, Vol 10, No 7, Jul 70, pp 71-79

results in a release of free protein ases and a decrease in other ases. It is generally concluded that the binding of protein ases resulting from intermittent adaptation to high-altitude hypoxia increases the resistance of the cardiac lysosome system to acute stress.

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USSR

GOLUBEY, N. A., ZHUKOVSKIY, Ye. L., POKROVSKIY, N. L.

"Study of Surface Tension of Solutions in the System Indium-Bismuth"

Issledovaniye Poverkhnostnogo Natyazheniya Rastvorov Sistemy Kidiy-Vismut [English Version Above], Moscow, 1971, 9 pages (Translated from Referativnyy Zhurnal, Khimiya, No 2, 1972, Abstract No 2 Bl357 Dep. by the author's).

Translation: The method of maximum pressure in a drop is used to measure the surface tension σ of solutions in the system In-Bi in the range of concentrations from 0 to 100% of both components and in the temperature interval 200-500°. It was discovered that the isotherms do not experience any anomalies in the area of concentrations corresponding to the intermetallic compounds In Bi, InBi and the eutectic. The equation of Shishkovskiy is used

for analytic description of the isotherm. This equation was solved on the M-20 computer. It was found that it describes the course of the isotherm σ for the entire area of concentrations of In-Bi solutions well. The polytherms of σ for these solutions are linear and have a negative temperature coefficient.

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AAOO43572 GOLUBEV N.N UR 0482 Soviet Inventions Illustrated, Section II Electrical, Derwent, 2/70

243863 FLOWMETER for determining the flow of liquid, gas or steam comprises an electric winding, a ferromagnetic shaft and a turning element such as a rotating impeller, which absorbs the dynamic pressure of liquid. The modified flowmeter is of a simpler design, since its signal receiving block is in the form of an electric winding connected to a source of AC of sonic winding connected to a measuring device, depending on the connection of the ferromagnetic shaft.

The rotary vanes are fixed to the ends of the ferromagnetic shaft 2, which passes through winding 3 with conductors 4. The shaft ends are connected to current conductors 5. Shaft 2 is fixed to housing 6.

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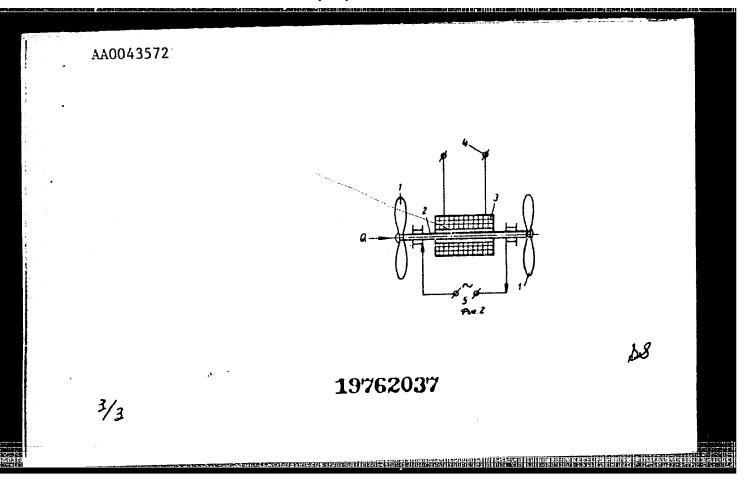
Under the action of the flow, the vane wheel turns to turn and turns shaft 2. In event of connecting conductor 4 of winding 3 to the feed of 14 to 25 h. of sonic frequency on the clamps of the conductors 5 of shaft 2 an outgoing signal proportional to the flow goes into action.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"



UDC 616.981.452-022.39-036.23-078.7(475

USSR

CHERCHENKO, I. I., OGANYAN, Ye. F., YUNDIN, Ye. V., NAYDEN, P. Ye., YENEL YANOV, P. F., GOLUFEV, P. D., FILLEONOVA, Yu. A., GONCHAROV, A. I., LABURETS, N. F., BABAYEV, M. R., ANANYAN, Ye. L., and KHANFJLYAN, E. K., Scientific Research Antiplague Institute of the Caucasus and Transcaucasus, and Antiplague Stations, Azerbaydzhan SSR and Armenian SSR

"Experience in Serological Detection of Plague in Rodent Nest Substrate and in Predatory Bird Pellets Under Field Conditions in Natural Foci of the Caucasus"

Moscow, Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 3, 1973, pp 15-20

Abstract: Use of the antibody neutralization reaction (ANR) employing plague antigenic erythrocyte diagnosticum was studied as a serological alternative to detection of plague by bacteriological analysis, for which it is not always possible to gather test material in the field. The study was based on the experimental finding that plague Fl antigen persists in the environment long after an epizootic has subsided. In the first phase, three areas in the Caucasus in which epizootics had been registered previously were studied in 1969-1971. Samples of rodent nest substrate were found to contain Fl antigen by the ANR, whereas bacteriological methods were generally unsuccessful, 1/2

USSR

CHERCHENKO, I. I., et al., Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 3, 1973, pp 15-20

indicating the usefulness of this method for retrospective analysis. In the second phase an area in which epizootics had not been recorded previously was studied in 1970-1971. While the ANR revealed the presence of Fl antigen in rodent nest substrate, bacteriological analysis did not produce such evidence until 4 months later. This result indicated that the method is also preferential for early detection of plague epizootics. In the final phase pellets regurgitated by predatory birds feeding on plague-carrying rodents were subjected to the ANR. Once again Fl antigen was detected in areas without previous epizootic history up to 2 months prior to detection by bacterial analysis. As a control pellets from an area known to be free of plague for 40 years was subjected to the ANR, and the results were negative. Thus the ANR is shown to be a suitable and preferential method for retrospective and early field detection of natural plague foci.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

. USSR UDC 616.981.452-082.39:595.775.1]-078.7+576.851.45.095.33:576.895.

CHERCHENKO, I. I., OGANYAN, Ye. F., YUNDIN, Ye. V., ANANYAN, Ye, L., KMANGULYAN, E. K., GOLUMEY, P. D., and GONCHANOV, A. I., Scientific Research Antiploque Institute of the Caucasus and Transcaucasus and Armenian Antiploque Station, Ministry of Health USSR

"Experience in Scrological Examinations of Fleas of Rodents for Flague"

Moseow, Zhurnel Mikrobiologii Epidemiologii i Immamobiologii, No 1, 1973, p 157

Abstract: The mindam runder of infected fleas required for a positive scholarical result is not note than 5 in a minture with 25 nominfected speciment. The results of sevological tests are available within 24 hrs after infection of the test fleas if they are hapt at 25°C in a 2% had colution containing the test fleas if they are hapt at 25°C in a 2% had colution containing 0.00% pention violet and by formalin which effectively extracts plague patient gen II antigen from the tirms of the insects and properties it for at least 15 gen II antigen from the tirms of the insects and properties it for at least 15 days. The solution with or without the fleas can be used for the sarohagical test which involves neutralization of artibodies with standard plague entigence test which involves neutralization of artibodies with standard plague entigence entirely constants. The method was verified in field work. In the sarohagical method was verified in field work. In the field wide and their holes in themsecuesis were enalyzed with both nethods in field wice and their holes in themsecuesis were enalyzed with both nethods in parallel. The sarohagical method detected antigen PI in 57 samples, while the 1/2

USSR

CHENCHEIKO, I. I., et al., Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 1, 1973, p 137

bacteriological method yielded cultures of plague pathogen in only 21 samples. In summer 1971, positive results were obtained by the serological method in 24% of samples of fleas collected from gophers in the Caucasian Mountains. Subsequently, the bacteriological method used in October 1971 yielded positive results for the first time in that region. The faster and more sensitive serological method is recommended for territorial surveys of plague pathogen.

2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

Presentation (in the first of t

Biochemistry

USSR

UDC 632.95

COLUBEV, T. I., VOLKOVA, V. A.

"Investigation of the Biological Path of Conversion of Chlorophos to DDVP"

Byul. VNII zashchity rast. (Bulletin of the All-Union Scientific Research Institute of Plant Protection), 1970, No 15, pp 55-60 (from RZh-Khimiya, No 2, 25 Jan 71, Abstract No 2N526)

Translation: In order to study the metabolism of chlorophos in the tissues of mice, shield bugs and wheat seedlings, a method is developed for determining concentrations of chlorophos and DDVP in biological media. The procedure consists of separation of these products by thin-film chromatography on silica gel and colorimetric determination of the activity of acetylcholine when it is inhibited by chlorophos and DDVP. In this connection, DDVP is not observed in experiments in vivo and in vitro, which indicates that chlorophos is metabolized in the tissues of plants, insects and animals without conversion to DDVP.

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CIA-RDP86-00513R002200930006-9" APPROVED FOR RELEASE: 09/19/2001

UDC 632.951:595.786

USSR

NOVOZHILOV, K. V., SMIRHOVA, I. M., and GOLUBEV, T. I., All-Union Institute for the Protection of Plants

"Possible Use of Organophosphorus Preparations in the Protection of Wheat against Grain Cutworm and Wheat Thrips"

Moscow, Khimiya v Selskom Khozyaystve, Vol 9, No 3, 1971, pp 33-41

Abstract: Most effective in the protection of wheat against grain cutworm and wheat thrips were chlorophos, methylnitrophos, and metaphos. The effectiveness of these compounds against eggs of the above pests was established in the laboratory. Chlorophos and metaphos (at a concentration of 1.35%) were most effective against insect eggs in a series of field tests. Also determined, were entorophos and methylmitrophos residues on mature wheat plants. Another test series was run to determine the effectiveness of these compounds at lower concentrations (0.5 and 1%) against caterpillars of the Grain cutworm. Methylnitrophos and chlorophos were found to be most active against older caterpillars. It was concluded that both regulanitrophos and chlorophos can be safely used for grain to protect; ent against caterpillars of the grain cutworm. 1/1

MEDICINE GOLUBEV, V. Moscow, Heditninskaya Gazets, 12 Pet 71, p 3 This device is designed to provide continuous atsicement of the percentage of ultravolet rays which solutions permit to pass through during column chrowits, Respirate has a plate by pegistering light absorption in the ultraviolet range of the spectrum (for example, nucleon derivatives, proteins, and aromatic computable). Translution: The Control Design Purews and the Experimental Plant of the USSE Academy of Medical Sciences have developed and manufactured several original devices for scientific research. 28 Hay 71 "Central Design Suresu, USSH Academy of Medical The external automatic recorder registers the signal from a collector, due to which it is possible to regulate the exchange of fractions not by time, but by change ing the concentration of matter in the solution. This instrument, created by a Ultraviolet Densitometer system. It performs semi-automatic, synchronius, sis-channel coding of electrocarius graph data. The instrument provides accommical codification and released information on perforated tape for subsequent feeding into a crackier. worker collective headed by Kardicton, envisages the possibility of measuring changes in electric conductivity in a flowing liquid. The densituation is already bring turned out in small series. The "Kardioton" maken it possible to single out particular ecotors of the electrocordiogram for each of its six leadoffs, and may be used in clinics and laboratories for machine disgnosis of diseases of the cardiovascular system. Meditainskoyo Gazeta, 12 Peb 71, p 3 A group of engineers headed by Y. Goldwer halm treated the unique instrument "Kardioton" for the USSH Academy of WIFEICAL Sciences, "Dailing of Surgery Small A. Y. Ylshunwakiy. It is used for operational diagnosis of diseases of the estilowascular The Coll The device sales it possible to quitivate coils in circulating das environments with an assigned temperature and humidity. The new levice is already being used at a number of actentific generatch institutes of the USES academy of Actical Sciences. A dawing cailed "The Gall" has been dawaloped at the Central Design Bureau estended and continuous suspension cultivation of manual cells during biological Xardinton DESIGN BURRAUS, MINISTRIES, NUMBERSO MIL'S 말 PPD:SOVIET SCIENCE

1/2 026 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--NEAR THE THRESHOLD OF THE ENERGY OF THE FUTURE -U-

AUTHOR--GOLUBEV, V.

COUNTRY OF INFO--USSR

SGURCE--PRAVOA UKRAINY, JULY 30, 1970, P 4, COLS 2-5

DATE PUBLISHED -- 30JUL 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--CONTROLLED THERMONUCLEAR REACTION, PLASMA HEATING, TURBULENT PLASMA, PLASMA CONFINEMENT, PLASMA STABILITY/(U)TOKAMAK 3 THERMONUCLEAR DEVICE, (U)URAGAN 1 THERMONUCLEAR DEVICE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RESL/FRAME--2000/0507

STEP NO--UR/9013/70/000/000/0004/0004

CIRC ACCESSION NO--ANOI24210

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

PROCESSING DATE--27NOV70 UNCLASSIFIED 026 2/2 CIRC ACCESSION NO--ANO124210 THE ARTICLE GIVES A BRIEF REVIEW ABSTRACT. ABSTRACT/EXTRACT--(U) GP-0-OF THE CONTROLLED FUSION REACTION RESEARCH CONDUCTED IN THE SOVIET CREDIT IS GIVEN TO ACADEMICIAN L. ARTSIMOVICH, WHO IN THE EXPERIMENTS HE GUIDED IN THE INSTITUTE OF ATOMIC ENERGY IMENI KURCHATOV, PRODUCED PLASMA IN TOKOMAK-3 WHOSE PARAMETERS WERE CLOSE TO BEING L. LANDAU, AND HIS KHAR'KOV SCHOOL, A. AKHIYEZER, MEMBER OF THE UKRAINIAN ACADEMY OF SCIENCES, YA. FAYNBERG, CORRESPONDING MEMBER, ARE GIVEN CREDIT FOR LAYING THE FOUNDATION FOR PLASMA IT IS CLAIMED THAT THE THEORY OF TURBULENT HEATING OF PLASMA HAS BEEN DEVELOPED AT THE LABORATORY OF DOCTOR K. STEPANOV. CANDIDATE OF PHYSICAL MATHEMATICAL SCIENCES V. ALEKSIN HAS BEEN WORKING THE PROBLEMS IN HOT PLASMA ON NEW MAGNETIC SYSTEMS FOR HOLDING PLASMA. STABILITY ARE BEING WORKED ON AT THE INSTITUTE OF NUCLEAR RESEARCH IN KIYEV UNDER THE DIRECTION OF DOCTOR V. ORAYEVSKIY. URAGAN-I, DEVELOPED IN HOSCOW AND KHAR!KOV, RESPECTIVELY, ARE COMPARED. CANDIDATES OF PHYSICAL MATHEMATICAL SCIENCES V. ZYKOV, N. NAZAROV, V. SIZONENKO, V. SUPRENENKO, AND O. SHVETS, ALL OF THE PHYSICAL TECHNICAL INSTITUTE OF THE UKRAINIAN ACADEMY OF SCIENCES, ARE SAID TO HAVE MADE SIGNIFICANT CONTRIBUTIONS WHICH HAVE MADE IT POSSIBLE TO OBTAIN PLASMA WITH TEMPERATURES UP TO 20,000,000DEGREES (HIGH FREQUENCY HEATING) AND 15,000 DEGREESC (TURBULENT METHOU). IT IS SAID THAT UKRAINIAN SCIENTISTS HAVE LAUNCHED THE THIRD STAGE OF COMPREHENSIVE EXPERIMENTS UNDER THE DIRECTION OF DUCTOR V. TOLOK, WHO BELIEVES THAT THE END GOAL OF THIS STEP IS THE CONSTRUCTION OF THE PHYSICAL MODEL OF A THERMONUCLEAR REACTOR. UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

1/2 022 UNCLASSIFIED PROCESSING DATE--11SEP70
TITLE--INTERACTION OF IMINOXYL RADICALS WITH CHLORINE -U-

AUTHOR--GOLUBEV, V.A., ZHOANOV, R.I., ROZANTSEV, E.G.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (1), 184-5

DATE PUBLISHED---- 70

SUBJECT AREAS--CHEMISTRY, ORDNANCE

TOPIC TAGS--IMINE, CHURINE, HETEROCYCLIC NITROGEN COMPOUND, METHYLENE, THERMAL DECOMPOSITION, EXPLOSIVE, POLYNUCLEAR HYDROCARBON, DESAUTO MITRO COMPOUND

CONTECL MARKING--NO FESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/2665

STEP NO--UF/0052/70/000/001/0134/0135

CIRC ACCESSION NO--APO200269

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

UNCLASSIFIED PROCESSING DATE--11SEPT.

TITLE--SYNTHESIS AND STRUCTURE OF 1,DXOPIPERIDINIUM TRIBROMIDES -U
AUTHOR--ZHCANOV, R.I., GOLUBEV, V.A., ROZANTSEV, E.G.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSR, SER. KHIM. 1970, (1), 186-7

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CHEMICAL SYNTHESIS, BROMINATED ORGANIC COMPOUND, MOLCULAR STRUCTURE, HETEROCYCLIC NITROGEN COMPOUND, THERMAL DECOMPOSITION, UV SPECTRUM, NAR SPECTRUM, BENZENE DERIVATIVE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/1596

STEP NO--UR/0062/70/000/001/0136/0137

CIRC ACCESSION NO--APO100209
UNCLASSIFIED

PROCESSING DATE--11SEP70 UNCLASSIFIED 2/2 013 CIRC ACCESSION NO--APO100209 ABSTRACT. REACTION OF I IZ EQUALS CH SUB21 ABSTRACT/EXTRACT--(U) GP-0-IN CCL SUB4 WITH BR WITH DRY ICE CODLING GAVE 99PERCENT RED 2,2,6,6, TETRAMETHYL, 1, OXOPIPERIDINE TRIBROMIDE, DECOMPD. 88.5-9.5DEGREES; 1 (Z EQUALS CHOH) GAVE 2,2,6,6,TETRAMETHYL,4,HYDROXY,1,OXOPIPERIDINE TRIBROMIDE, DECOMPD. 188-9DEGREES; I (Z EQUALS CHBR) GAVE 2,2,6,6, TETRAMETHYL, 4, BROMO, 1, OXOPIPERIDINE TRIBROMIDE, DECOMPD. 106-7DEGREES; I (Z EQUALS CHOBZ) GAVE 2,2,6,6,TETRAMETHYL,4, BENZYLOXY, 1, OXOPIPERIDINE TRIBROMIDE, DECOMPD. 96-70EGREES; EQUALS CO) GAVE 2,2,6,6, TETRAMETHYL, 1,4, DIOXOPIPERIDINE TRIBROMIDE, VIOLET, DECOMPD. 67-8DEGREES. REACTION OF II WITH BR GAVE BIS(4,(2,2,6,6,TETRAMETHYL, 1,OXOPIPERIDINE TRIBROMIDE)) PHTHALATE, DECOMPD. 43-5DEGREES. UV SPECTRAL CURVES OF TYPICAL PRODUCTS ARE SHOWN. THUS I AND II ARE OXIDIZED BY BR AT LOW TEMP. TO DIAMAGNETIC PRODUCTS WITH 3 BR ATOMS: THE ABOVE STRUCTURES WERE CONFIRMED BY NMR AND IR SPECTRA.

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nd territor factor (17) are result for the control of the control

GOLUBEV, V.A.

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AA0052656

UR 0482

Soviet Inventions Illustrated, Section III Mechanical and General, Derwent, 70

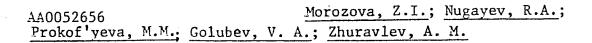
244817 TWO-SIDED HYDRAULIC DAMPER consists of two parts; 1 and 2 bolted together and mounted on base 3. It is filled with working medium under atmospheric pressure and connected by pipelines with additional chambers 4 and 5. The body contains a number of chambers with pistons 6 and 7 connected between themselves by crosspieces 8 and 9 which in turn are rigidly connected to rod 10. All the chambers are interconnected and each contains free piston which divides two media (air and fluid). The air medium communicates with the atmosphere through the non-return valve. Crosspieces 8 and 9 are connected to suitable guides I5 and 16. The pressure is transmitted to pistons 6 and 7 through the flange, thrust ball 17, rod 10 and crosspieces 8 and 9. 1.2.68. as 1214193/25-28. V.A.GOLUBEV et al. (9.10 69.) Bul.18/28.5.69. Class 47a. Int.Cl. Fi6f.

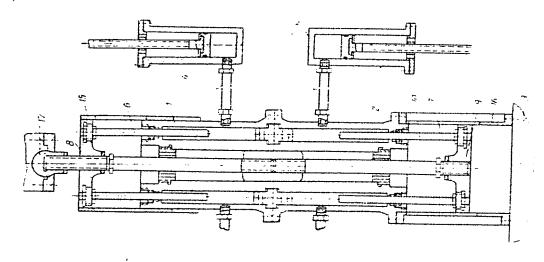
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G.L.

USSR

UDC 621.373:530.145.6

GOLUBEY, V. A., KLIMMIN, V. F.

"Investigation of the Parameters of a High-Temperature Source at High. ressures"

V sb. Primeneniye plazmatrona v spektroskopii (Use of the Plasmatron in Spectroscopy-collection of works), Frunze, "Ilim", 1970, pp 70-75 (from <u>MZh-Radiotelihaika</u>, No 10, Oct 70, Abstract No 10D217)

Translation: An experimental investigation is made of the electric and neat parameters of an electric arc in argon at high pressure. Data are given on the emission intensity of argon at pressures of 10-150 atmospheres. The average electrical conductivity of the plasma with respect to the cross section of the arc column is estimated. Three illustrations, bibliography of eight titles. Resumé.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

UDC 541.15+541.183.03

GOLUBEY, V. B., KOLBANOVSKIY, YU. A., LEBEDEY, S. N., MASTEROVA, M. N., POLAK, L. S., Institute of Petrochemical Synthesis imeni A. V. Topchiyev, Moscow, Academy of Sciences USSR

"Process Kinetics of the Annealing of Adsorption and Paramagnetic Centers Generated by Radiation on the Surface of \(\chi^{-Al}_2^0_3 \), as Studied by the Monte Carlo Method"

Moscow, Khimiya Vysokikh Energiy, Vol 4, No 5, Sep-Oct 70, pp 439-442

Abstract: The Monte Carlo method was used for a kinetic study of the annealing of the adsorption and paramagnetic centers formed by gamma radiation on the surface of \(\)-Al203. The following initial data were used for computer-aided analysis of the experimental data by the Monte Carlo method: 1) kinetic curves for the thermal annealing of the adsorption and paramagnetic centers; 2) dependence of the number of radiation-induced defects on annealing tomperature for the paramagnetic and adsorption centers. The trap depth distribution was assumed to be exponential. It was 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

GOLUBEV, V. B., et al, Khimiya Vysokikh Energiy, Vol 4, No 5, Sep-Oct 70, pp 439-442

found that the minimum trap depth does not exceed \$\mu\$ kT. The total kinetic annealing curve is the result of the superimposition of a large number of exponents on each other, each corresponding to traps with a different depth in the forbidden gap. The annealing kinetics of the adsorption and paramagnetic centers were found to be the same, which argues in favor of the authors! theory that the centers are identical.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

UDC 541.15

USSR

BUGAYENKO, L. T., ZADOR, E., BELEVSKIY, V. N., GOLUBEY, V. B., Moscow State University imeni M. V. Lomonosov, Moscow, Ministry of Higher and Secondary Specialized Education RSFSR

"Isotope Effect in Radiolysis of Frozen Aqueous Solutions of Acids"

Moscow, Khimiya Vysokikh Energiy, Vol 4, No 5, Sep-Oct 70, pp 466-469

Abstract: The article describes results of a study of the isotopic enrichment of atomic hydrogen in frozen solutions of perchloric (2.4 M) and sulfuric (3.9 M) acids. Within the accuracy limits of relative EPR measurements (20 percent) the isotopic enrichment factor is practically constant over the entire investigated range of isotopic composition and equals 2.0 ± 0.4, which is considerably lower than in liquid solutions.

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CIA-RDP86-00513R002200930006-9" APPROVED FOR RELEASE: 09/19/2001

1/3 029 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--KINETICS OF THE LOSS OF SILVER ATOMS ADSURBED ON SILICA GEL -65-

AUTHOR-(C4)-PCPGVICH, G.M., LUNINA, YE.V., GOLUBEV, V.B., YEVDOKIMOV, V.B.

CCUNTRY OF INFO--USSR

SOURCE--ZH. FIZ. KHIM. 1970, 44(2), 517-20

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY, PHYSICS

TGPIC TAGS--SILVER NITRATE, SILICA GEL, CHEMICAL KINETICS, EPR SPECTRUM, ADSGRPTION, IKRADIATION, ISOTOPE

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1999/1237

STEP NO--UR/0076/70/044/002/0517/0520

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CIRC ACCESSION NO-APO123199

UNCLASSIFIED

2/3 029 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APG123199 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. SAMPLES PREPD. BY SHAKING CARRIER WITH AGNO SUB3 SOLN. IN WATER FOR 3 HR, WERE WASHED WITH DISTO. WATER, DRIED AND IRRADIATED BY X OR GAMMA RAYS, AT MINUS 190DEGREES. SILICA GEL CORRESPUNDING TO A SURFACE OF 660 M PRIMEZ-G AND ALUMINO SILICATE CENTG. AL SUB2 O SUB3 (12 AND 25PERCENT) CURRESPONDING TO THE SURFACES OF 400 AND 350 M PRIMEZ-G WERE USED AS CARRIERS. INDUSTRIAL SILICA GEL SAMPLES WERE ALSO USED. THE TEMP. WAS VARIED BY CHANGING THE TEMP. OF N SUB2 FLOWING THROUGH THE RESCNATOR. EPR SPECTRA OF STABILIZED AG ATOMS ON THE SURFACE SHOWED 2 DOUBLETS OF ISOTOPES PRIMEIUT AG AND PRIMEIOS AG. CONSTS. OF HYPERFINE SPLITTING DECREASED IN THE CASE OF IRRADIATED SPECIMENS FROZEN IN SOLN. DOUBLETS WERE ALSO FOUND DURING IRRADN. OF AGNO SUB3 SOLN. HYPERFINE SPLITTING CONSTS. DEPEND UPON TEMP.; AT MINUS 170 DEGREES, THEY DECREASED TO SIMILAR TO 40 SPLITTING CONSTS. OF ATOMS STABILIZED ON THE SURFACE WERE INDEPENDENT OF TEMP. PERCENT RELATIVE CHANGE IN SPLITTING CONSTS. IS EXPRESSED AS DELTA(DELTAV)-DELTAV SUBFREE WHERE DELTA(DELTAV) EQUALS DELTAV MINUS DELTAV SUBFREE. DELTAV AND DELTAV SUBFREE ARE SPLITTING CUNSTS. OF STABILIZED AND FREE ATUMS OF THE ISUTUPES BEING STUDIED. CHARACTERISTIC CURVES FOR THE LOSS OF AG ATOMS AT MINUS 140DEGREES ADSCREED UN SILICA GEL AND STABILIZED IN FROZEN SCLN. ARE GIVEN. EFFECTS OF TEMP. AND RATE OF WELTING ARE CONSIDERED. IT IS ASSUMED THAT DURING IRRAGIATION, ENERGIZED TRAPS ARE FORMED IN THE CARRIER. HEATING OF THE SPECIMEN. SOME OF THE ELECTRONS ARE SET FREE WHICH ARE RESPONSIBLE FOR THE REDN. OF SOME OF THE AG PRIMEPUSITIVE IONS TO AG ATUMS.

UNCLASSIFIED.

JUNCLASSIFIED PROCESSING DATE——300C170
CIRC ACLESSICN NC——APOL23199
ABSTRACT/EXTRACT——FACILITY: MUSK. GOS. UNIV. IM. LCHDNOSGVA, MOSCOW, USSR.

UNCLASSIFIED

1/2 022 UNCLASSIFIED PROCESSING DATE-300CT70

TITLE—REACTION OF MONOMERS WITH CARBONYL OR NITRILE GROUPS WITH METALS AND SOME REACTIONS OF THE RESULTING ANIONRADICALS -U-

AUTHOR-(05)-PANASENKO, A.A., GOLUBEY, V.B., ZUBOV, V.P., KABANOV, V.A.,

COUNTRY OF INFO-USSR

SGURCE--VYSOKOMOL. SOEDIN., SER. A 1970, 1294), 865-72

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-MONOMER, CARBONYL RADICAL, NITRILE, SODIUM, MAGNESIUM, ACRYLATE, ACETONE, BENZOIC ACID, FREE RADICAL, OLIGOMER

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/0683

STEP NO--UR/0459/70/012/004/0865/0872

CIRC ACCESSION NO--AP0124355

UNCLASSIFIED

2/2 022

UNCLASSIFIED

PROCESSING DATE--300CT70

CIRC ACCESSION NO--AP0124355

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE VAPORS OF NA OR MG WERE CONDENSED ON A SURFACE, COOLED WITH LIQ. N. TOGETHER WITH THE VAPORS OF ME METHACRYLATE, ME ACRYLATE, ME BUTYRATE, ET BENZOATE, ACH, ETCHO, ISO PRCHO, TERT BUCHO, ACROLEIN, ACETONE, H SUB2 C:CHCN, H SUB2C:CMECN, OR ETCN. THE CONDENSATE CONTAINED FREE RADICALS. THE REACTIONS OF THESE MONOMERS WITH NA OR MG GAVE ANION RADICALS, SUCH AS (ME SUB2 CO), WHICH INTIATED THE OLIGOMERIZATION BY ANIONIC MECHANISM. FACILITY: MOSK. GOS. UNIV. IM. LOMONOSOVA, MOSCOW, USSR.,

UNCLASSIFIED

1/2 015 UNCLASSIFIED PROCESSING DATE--27NOV70

TITLE--REMOVAL OF METALLIC MERCURY FROM WORKING AREAS -U-

AUTHOR-(02)-GAVRIKOV, L.A., GOLUBEV, V.G.

COUNTRY OF INFO--USSR

SOURCE--U.S.S.R. 266,727 REFERENCE--OTKRYTIYA, IZOBRET., PROM. UBRAZTSY, TOVARNYE, ZNAKI 1970, DATE PUBLISHED--OIAPR70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--MERCURY, CHEMICAL PATENT, HYDROGEN PEROXIDE

CONTROL HARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3003/1076

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0130111

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--27NOV70

2/2 015 UNCLASSIFIED PROCESSING DATE--27NOV70

CIRC ACCESSION NO--AA01301111

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. METALLIC HG WAS REMOVED WITH A

DEGASSING AGENT, SUCH AS AN AQ. H SUB2 O SUB2 SOUN., TO ELIMINATE THE

USE OF TOXIC OR CORRODING SUBSTANCES.

USSR

UDC 582.282.23.094.85.088.7

GUZEV, V. S., GOLUBEV, V. I., and ZVYAGINTSEV, D. G., Chair of Soil Biology, Faculty of Soil Biology, Moscow State University imeni M. V. Lomonosov, Moscow

"The Detection of Microcapsules in Microorganisms and the Control of Their Complete Decapsulation by Microelectrophoresis"

Moscow, Mikrobiologiya, Vol 41, No 1, Jan/Feb 72, pp 115-120

Abstract: Strain No 943 of yeast Cryptococcus albidus var. diffluens was used in the study. An acapsular strain was obtained by multiple transfers and growths of the original strain on wort agar. Complete decapsulation was performed by autoclaving of the culture in an acetic acid solution at pH 4. Electrophoretic mobility was estimated using microelectrophoresis in a closed chamber. The effect of pH was studied using modified McIlvein's citrate-phosphate buffer of an ionic strength 0.02. The maximal electrophoretic mobility (2.7 micron/second/volt/centimeter) was obtained at pH 7.8. The mobility decreased at lower pH values. Both capsular and acapsular strains had identical mobility, which indicated the identity of their surfaces. The presence of a microcapsule (less than 0.4 micron) on the so-called acapsular strain was confirmed by electron microscopy. On the other hand, a strain completely decapsulated had a different electrophoretic mobility (+0.25)

USSR

GUZEV, V. S., et al., Mikrobiologiya, Vol 41, No 1, Jan/Feb 72, pp 115-120

micron/second/volt/centimeter) than the parent strain (-0.2 micron/second/volt/centimeter) at pH 1.7. The differences in electrophoretic mobility decreased with increased pH. Microelectrophoresis is a simple and convenient method for the detection of microcapsules undetectable by optical microscopy or by chemical methods. A control capsular strain is necessary for the test.

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- 30 -

USSR UDC: 537.31

POLYAKOV, N. N., KUKUY, A. S., GOLUBEV, V. I., PAVLOV, N. I., Gor'kiy Physicotechnical Research Institute

"Checking the Homogeneity of Semiconductor Single Crystals From Measurements of Their Resistivity"

Moscow, Izv. AN SSSR: Ser. Fizicheskaya, Vol 36, No 3, Mar 72, pp 607-613

Abstract: Correction factors are calculated to account for the dimensions of the specimen and probe position in resistivity measurements by the four-probe method on rectangular and cylindrical single crystal semiconductors. The results of computer calculations are presented in tables and curves. It was found that reducing the thickness of a specimen past half the distance between probes does not affect the measurement results. It was also found that the specimen can be considered infinitely thick beyond a thickness of five times the distance between probes.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

UNCLASSIFIED PROCESSING DATE--04DEC70

TITLE--MATHEMATICAL MODEL OF THE CONTINUOUS STRIPPING OF SLAGS -U
AUTHOR-(05)-LISOVSKIY, D.I., IVANOV, V.A., SHAPIROVSKIY, M.R., GOLUBEV,

V.I., LYAPUNOV, I.D.

SOURCE--IZV.VYSSH. UCHEB. ZAVED., TSVET. MET. 1970, 13(1), 141-7

DATE PUBLISHED----70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--MATHEMATIC MODEL, METALLURGIC SLAG, METALLURGIC PROCESS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0841

STEP NO--UR/0149/70/013/001/0141/0147

CIRC ACCESSION NO--ATO132931

UNCLASSIFIED

2/2 018 UNCLASSIFIED PROCESSING DATE--04DEC70
CIRC ACCESSION NO--AT0132931
ABSTRACT/EXTRACT--IUJ GP-O- ABSTRACT. THE PROCESS OF STRIPPING THE SLAG
IS DESCRIBED BY 11 MATH. EQUATIONS. FACILITY: MOSK. INST. STALI
SPLAYOV, MOSCOW, USSR.

UNCLASSIFIED

USSR

UDC: 669.14.018.45:620.193

GOLUBEY, V. I., BOGACHEV, I. N., and VEKSLER, Yu. G., Ural Polytechnic Institute

"Study of the Cavitation-Erosion Resistance of Stainless and Heat-Resisting Steels in Lead-Bismuth Melts"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 8, 70, pp 123-126

Abstract: The objective of this study was to assess the effect of Si and Mo on the cavitation and erosion resistance of austenitic stainless steels in Pb-Bi melts as compared to 1Kh18N10T and Kh18N14 steels without additional alloying, as well as the effect of heat treatment on the stability of heat-resisting steels. It was found that the cavitation and erosion resistance of steels and alloys in Pb-Bi melts is determined by their chemical composition and the method of heat treatment Cavitation and erosion failure of the metal's surface occurs following deformation and strengthening. The subsequent softening caused by internal ruptures in the grain, cracks, and separation of individual microvolumes sets in when the metal's ability to strengthen is exhausted. The addition of Si and Mo, alone with increasing the heat resistance, corrosion resistance, and plastic and strength limits, increases the resistance to plastic deformation of the surface layers on exposure to cavitation. The decrease in the resistance of steel in bismuth-rich melts is proportional to both the extent and depth of the strengthened zone.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR • UDC: 612.88

GOLUBEY, V. N., Department of Normal Physiology, "Order of Lenin" Red Banner Military Medical Academy imeni S. M. Kirov, Leningrad

"A Method for Quantitative Evaluation of the Functional State of the Motor Analysor"

Leningrad, Fiziologicheskiy Zhurnal SSSR, Vol 58, No 8, Aug 72, pp 1306-1309

Abstract: An experimental device is described for registration and quantitative evaluation of the transient process in the motor analysor system on the basis of automatic control theory. A KTE-1 silicon strain gauge resistor on a hand-held dynamometer connected in one of the arms of a bridge circuit is the pickup for the transient process. The signal from the unbalanced bridge is sent to a microammeter graduated in kilograms, amplified by a UBP1-02 low-frequency amplifier and sent to the recorder. The power supply for the amplifier also feeds the bridge. The electrodes and leads for biopotential pickup are described as well as a system for automatic analysis of the resultant electromyograms. The latter is basically a counter which receives the output pulses from

1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

USSR

GOLUBEV, V. N., Fiziologicheskiy Zhurnal, Vol 58, No 8, Aug 72, pp 1306-1309

the UBP1-02 amplifier after passage through a converter with standard square-wave output. The prf is then converted to a DC level whose amplitude is recorded on photosensitized chart paper. A resistance-capacitance (RC) filter is used to determine the integrated electrical activity of the electromyogram. A diode bridge is connected in the circuit for summation of the positive and negative components of the electromyogram. Analysis of experimental results shows that the motor analysor is regulated by a system which includes at least three control levels.

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1/3 Q25 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--INDIRECT EVALUATION OF THE POROSITY OF ELECTROLYTIC DEPOSITS -U-

AUTHOR-(02)-KOVARSKIY, N.YA., GOLUBEV, V.N.

COUNTRY OF INFO--USSR

SCURCE--ZH. PRIKE KHIM. (LEININGRAD) 1970, 4312) 348-54

DATE PUBLISHED ---- 70

SUBJECT AREAS-MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--ELECTRODEPOSITION, METAL CRACKING, PITTING COSPOSION, CRYSTAL GROWTH, COPPER ZINC

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/0771

STEP NO--UR/0080/70/043/902/0348/0354

CIRC ACCESSION NO--APOLITY59

UNCLASSIFIED

PROCESSING DATE--020CT70 UNCLASSIFIED CIRC ACCESSION NO--AP0111959 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE INFEUENCE OF THE MICRO THROWING POWER (MTP) OF PLATING ELECTROLYTES ON THE POROSITY OF DEPOSITS WAS STUDIED IN AN ATTEMPT TO ESTABLISH A CORRELATION BETWEEN BOTH VALUES. THE MTP WAS DETO. AS THE RATIO BETWEEN THE THICKNESS OF THE DEPOSITS AT THE PINNACLES AND VALLEYS OF A GROOVED SUBSTRATE, OR AS THE RATIO BETWEEN THE C.DS. OF A ROTATING DISK ELECTRODE AT 2 DIFFERENT SPEEDS UNDER POTENTIOSTATIC CONDITIONS. CU AND ZN WAS DEPOSITED ON STAINLESS STEEL SUBSTRATES. AND NI WAS DEPOSITED ON CU SUBSTRATES FROM CONVENTIONAL SIMPLE SULFATE BATHS. ALL SUBSTRATES HERE MECH. POLISHED UNTIL SURFACE ROUGHNESS WAS SMALLER THAN 0.01 MU, AS CHECKED WITH A PROFILOGRAPH. A SIMPLIFIED PORE FORMATION MECHANISM AND MODEL IS PROPUSED BASED ON THE INITIAL CRYSTAL NUCELATION PROCESSES AND THE SUBSEQUENT GROWTH OF THE CRYSTALLITIES. IT IS ASSUMED THAT PITTING OR STRESS CRACKING POROSITY IS EXCLUDED AND SUBSTRATES ARE IDEAL. RATIO BETWEEN THE CRYSTAL GROWTH RATE IS VERTICAL, V SUBV, AND HGRIZONTAL, V SUBH, DIRECTION, ASSUMING A RANDOM GRIENTATION OF THE CRYSTALS WITH RESPECT TO THE SUBSTRATE, CAN BE EXPRESSED BY THE EQUATION: V SUBV-V SUBH CONGRUENT TO CONST. (1-MTP), HENCE POROSITY (P) PER UNIT DEPOSIT THICKNESS IS INVERSELY PROPORTIONAL TO MTP. THE THEORETICALLY EVALUATED POROSITY MTP DATA WERE COMPARED WITH DIRECT MEASUREMENTS INVOLVING CONVENTIONAL MICROSCOPIC PORE DETN. TECHNIQUES. EXPTS. WERE PERFORMED AT DIFFERENT C.DS. AND BATH COMPNS. GOOD AGREEMENT EXISTS BETWEEN BUTH DATA, PROVING THE CORRECTNESS OF THE PROPOSED MODEL.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

<u>Consideration of the constraint of the constraint Million and Heat Section 6 and Section Constraint</u>

UNCLASSIFIED PROCESSING DATE--020CT70
CIRC ACCESSION NO--APO111959
ABSTRACT/EXTRACT--AN EXPRESSION IS PROPOSED FOR THE EVALUATION OF P DURING CU. ZN. OR NI PLATING BY INDIRECT MEASUREMENTS OF MTP: P EQUALS KK(1-MTP). WHERE K IS A COEFF. OF PROPORTIONALITY, DEPENDING ON THE HATURE OF THE METAL AND THE THICKNESS OF THE COATING, AND K EQUALS H-DCLTAQ, WHERE H IS THE HEIGHT OF INITIAL ROUGHNESS AND DELTAQ THE CUANTITU OF ELECTRICITY. EXPIL. DATA OBTAINED BY USING MTP DATA BASED ON POLARIZATION MEASUREMENTS INVOLVING C.D. DATA OF A DISK ELECTRODE AT VARIOUS RPM ARE ALSO IN GOOD AGREEMENT WITH THE PROPOSED INDIRECT POROSITY CRITERION MTP.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

1/2 020 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--LONG ACTING STREPTOMYCIN -U-

AUTHOR-(04)-GOLUBEV, V.N., KOROLEVA, V.G., VASILYEV, V.K., LAZAREVA, YE.N.

COUNTRY OF INFO--USSR

SCURCE--ANTIBIOTIKI, 1970, VOL 15, NR 6, PP 491-494

DATE PUBLISHED-----70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-BENZENE DERIVATIVE, ETHYLENEDIAMINE, STREPTCHYCIN, SULFATE, BLOCD CHEMISTRY

CONTROL MARKING—NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/1833

STEP NG--UR/0297/70/015/006/0491/0494

CIRC ACCESSION NO--APO125444

UNCLASSIFIED

2/2 020 UNGLASSIFIED PROCESSING DATE--300CF70

CIRC ACCESSION NO--APOL25444

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT.

1,3,DIBENZYL,2,STREPTOMYCINIMIDAZOLIDIN SULFATE, A CONDENSATION PRODUCT

OF STREPTOMYCIN WITH N, N PRIMEL,DIBENZYLETHYLENDIAMINE WAS STUDIED IN

VITRO AND IN VIVO. ON INTRAMUSCULAR ADMINISTRATION OF A WATER

SUSPENSION OF STREPTOMIOOZOLIDIN (PARTICLES OF NOT MORE THAN 30

MICRENS) TO DOGS IN DOSES OF 20000 OR 40000 MU G-KG, THE DRUG WAS ABSURBED TO BLUOD AT A LOWER RATE AND PROVIDED LOWER LEVELS DURING THE FIRST HOURS! OF OBSERVATION AS COMPARED TO STREPTOMYCIN, WHILE THE BLOOD LEVELS IN 3, 5, 9, 12 HOURS WERE MUCH HIGHER. MINOR CONCENTRATION OF STREPTOMICAZCLIDIN WERE DETECTED UP TO 72 HOURS AFTER THE ADMINISTRATION. THE NEW DERIVATIVE DID NOT SIGNIFICANTLY DIFFER FROM STREPTOMYCIN BY THE GENERAL ANTIBACTERIAL SPECTRUM IN VITRU AND THE BASIC PHARACOLOGICAL CHARACTERISTICS. FACILITY: NATIONAL INSTITUTE FOR ANTIBIOTICS, MOSCOW.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

1/2 017 UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--LIQUID VAPOR EQUILIBRIUM IN THE STYRENE ACRYLIC ACID SYSTEM -U-

AUTHOR--GOLUBEV, V.N.

COUNTRY OF INFO--USSR

SOURCE--ZH. PRIKL. KHIM. (LENINGRAD) 1970, 43(3), 706-8

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--PHASE EQUILIBRIUM: STYRENE, ACRYLIC ACID, REFRACTIVE INDEX, - CHEMICAL LABORATORY APPARATUS

CONTROL MARKING--NO RESTRICTIONS

OCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1252

STEP NO--UR/0080/70/043/003/0706/0708

CIRC ACCESSION NO--APOLZan68

U000148819190

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

ONCLASSIFIED PROCESSING DATE--13NOV7O CIRC ACCESSION NO--APOLESSES ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. AN APP. IS DESCRIBED FOR STUDYING THE LIQ. VAPUR EQUIL. VAPOR COMPN. B.P. DATA ARE GIVEN FOR STYRENE ACRYLIC ACID MIXTS. THE PELATION BETHERN THE REFRACTIVE INDEX (A) AND COMPN. IS GIVEN BY B EQUALS 2.4033 MINUS (13.4233 MINSU 251A MINUS 0.8697) PRIME2) PRIME3.5, WHERE B IS THE MOLE FRACTION OF STYRENE IN THE LIQ. MIXT. FACILITY: INST. ELEMENTOORG. SCEDIN., MOSCOW, USSR.

PHICLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

1/2 024 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--EFFECT OF THE MICRORELIEF OF ELECTROLYTIC COPPER AND ZINC DEPOSITS
ON THEIR CORROSION RESISTANCE -UAUTHOR-(02)-GOLUBEV, V.N., KOVARSKIY, N.YA.

COUNTRY OF INFO--USSR

SOURCE--ZASCH. METAL. 1970, 6(1), 59-60

DATE PUBLISHED ---- 70

SUBJECT AREAS--MECH., IND., CIVIL AND MARINE ENGR, MATERIALS

TOPIC TAGS--CORROSION RATE, ELECTROLYTIC COPPER, ZINC PLATING, ELECTRODEPOSITION, SURFACE ROUGHNESS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/1539

STEP NO--UR/0365/70/006/001/0059/0060

CIRC ACCESSION NU--APO120320

UNCLASSIFIED

2/2 024 UNCLASSIFIED PROCESSING DATE--230CT70

CIRC ACCESSION NO--APO120320

ABSTRACT/EXTRACT--(U) GP+O- ABSTRACT. THE RATE OF CORROSION OF CU AND ZN DEPOSITS WAS INDEPENDENT OF THE CONDITIONS UNDER WHICH THEY WERE OBTAINED AND WAS DETD. PRIMARILY ON THE MICROGEOMETRY OF THE RESULTING SURFACE. THE RATE OF CORROSION IN BOTH KINDS OF DEPOSITS INCREASED WITH THE NUMERICAL VALUE OF R SUBA, DEFINED AS THE AFITHMETICAL MEAN OF THE DEVIATIONS FROM SMOOTHNESS IN THE PROFILE WHICH CHARACTERIZES THE SHAPE AND SIZE OF UNEVENNESS OF THE SURFACE. CORROSION RESISTANCE IS NOT DETD. BY THE SP. SURFACE OF THE SAMPLE BUT RATHER BY THE SHAPE, EXTENT, AND FREQUENCY OF MICROUNEVENNESS OF THE SURFACE.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

1/2 021 UNCLASSIFIED PROCESSING DATE--090CT70
TITLE-RADIATION GRAFTING OF ACRYLIC ACID AND STYRENE FROM THEIR VAPOR

MIXTURES ON A POLYPROPYLENE FIBER -U-

AUTHOR-(03)-GULUBEV, V.N., KORSHAK, V.V., TSETLIN, B.L.

COUNTRY OF INFO--USSR

SOURCE-DOKL. AKAD. NAUK SSSR 1970, 190(4), 846-8

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--ACRYLIC ACID, STYRENE, POLYPROPYLENE FIBER, PEROXIDE, COPULYMERIZATION, RACIATION GRAFT POLYMERIZATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/2011

STEP NO--UR/0020/70/190/004/0846/0848

CIRC ACCESSION NU--ATOL12966

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002200930006-9"

2/2 021 UNCLASSIFIED PROCESSING DATE--09UCITO
CIRC ACCESSION NO--ATO112966
ASSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE ADSORPTION UF STYRENE (I) AND
ACRYLIC ACID (II) VAPORS ON POLYPROPYLENE FIBERS (III) PROCEEDS AT
APPROX. THE SAME KATES. THE REACTIVITY RATIOS OF I-II CUPPLYMN.,
INITIATED WITH PEROXIDES, ARE 0.25 FOR I AND 0.45 FOR II (G. ODIAN, ET
AL., 1962). IN RADIATION GRAFTING OF I II VAPUK MIXTS. UN III, THE
REACTIVITY KATIOS OF I AND II ARE 0.29 AND 0.43 RESP., INDICATING THAT
III ACTS AS SUPPORT FOR THE FREE RADICAL COPOLYMN. DE I WITH II. THE
COPOLYMER IS SUBSEQUENTLY GRAFTED UNTO III (A. V. VLASOV, ET AL., 1966).

FACILITY: INST. ELEMENTUORG SOEDIN., MOSCOW, USSR.

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USSR

UDC 621.396.62:621.391.84

GOLUBEV, V. N.

Chastotnaya izbiratelnost radiopriyemnikov AM-signalov (Frequency Selectivity of AM Radio Receivers), Moscow, Svyaz Press, 1970, 199 pp (from RZh-Radiotekhnika, No 9, Sep 70, Abstract No 9DIK)

Translation: This article contains an investigation of the theory and calculation of the characteristics of selectivity of AM receivers. A great deal of attention has been given to investigation of nonlinear effects on selectivity in the receiving channel. The characteristics of bandless reception are presented. The effect of the receiver heterodyne characteristics on selectivity is estimated. A procedure for measuring the selectivity characteristics is described. The concept of the selectivity coefficient is introduced. This helps to estimate the interrelation of individual parameters characterizing selectivity. There are 86 illustrations, nine tables and a 59-entry bibliography.

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Such as home 1975, pp 1289-1291)

The purpose of this article is to prove experimentally the feasibility of effective Minesceleptation of plansa with measuallibrium conductivity and high output power (-10° b).

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